

#### United States Patent and Trademark Office

UNITED STATES DEPAREMENT OF COMMERCE United States Patent and Trademark Office Address 11 No. 130, No. 17 to PACIN'S Address 140, No. 17 to PACIN'S Alexander, Vignas 2215 (240) www.tapoc.en

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 62 01/2063

ONDEO Nalco Company Patent & Licensing Department ONDEO Nalco Center Nancrville, IL 60563-1198 EXAMONER

ALVO, MARC S

CLASS-SUBCLASS

1731 DATE MAILED 07/08/2003

 APPERATION NO
 HAING DATE
 FIRST NAMED INVENTOR
 ATTORNEY 90CKET NO.
 CONFRINADION NO.

 09/84h/635
 05/91/2001
 Prased V. Duggirah
 7548
 4847

TITLE OF INVENTION: METHODS TO ENHANCE PULP BLEACHING AND DELIGNIFICATION USING AN ORGANIC SULFIDE CHELATING AGENT

| ſ | APPIN, TYPE   | YTITY'I LIV MZ | ISSULTED. | PUBLICATION FEE | TOTAL FLE(S) DUE | DATE DUE  |
|---|---------------|----------------|-----------|-----------------|------------------|-----------|
|   | nanmovisional | 20             | \$1300    | \$300           | \$1600           | 10.012003 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITIS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFER L313 AND MPPE 1930.

THE ISSUE FFE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THERE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS BANDONED. <u>THIS STATUTORY FERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. ISL. THE ISSUE FFE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION, THE PTOLESSE OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

## HOW TO REPLY TO THIS NOTICE:

I, Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FIEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1-2 the ISSUE FEE shown above.

 Applicant claims SMALL ENTITY status. Sec 37 CFR 1.27.

II. PART B - FEE(s) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid. Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents Alexandria, Virginia 22313-1450

Fax (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE, (if required). Blocks I through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of mannetance fees will be market to the current correspondence address as militated unless corrected below or directed inflexions in flicks. I. by (i) specting on given correspondence address, and or by militating a separate "FFE ADDRESS" for TRENT CHREST SPECIAL AND SERVICE AND SERVICES (Note: Legistermark on with any collections of use Block I).

7500 62:03:2003

ONDEO Nalco Company Patent & Licensing Department ONDFO Nalco Center Naperville, IL 60563-1198

APPLN. LYPE

A certificate of mailing can only be used for domestic mailings of the Feets) Transmittal This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or tornal diswaring many have its our certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Feeds Transmission of transmission that the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Usua Fee address above, or being facsimile maismitted to the USPLO, on the date indicated below

TOTAL (EUS) DUI

(Depositue's name (Signature

DATE OF

|                |            |                      |                     | (IME)            |
|----------------|------------|----------------------|---------------------|------------------|
| APPERCATION NO | FRING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
| 09/846,635     | 05.01/2001 | Presad Y. Duggirala  | 7548                | 4847             |

DE DESCRIPTION SEED

HILL OF INVENTION: METHODS TO FRIENCE PLEP BLEACHING AND DEUGNIFICATION USING AN ORGANIC SULFIDE CHEER FING AGENT

recta trea

| nonprevisional   | ND  | .\$1300           | \$300   | \$160  | 00 10/01/2003 |
|--|---|-------------------|---|--|---------------|
| ENAMINES   |   | ART UNIT          | CLASS-SUBCLASS  | 1  |               |
| ALVO, MAR  | C S   | 1731              | 162-070000  | •  |               |
| 1. Change of correspondence (CFR 1.363).  ☐ Change of correspondence Address form PTO SB (22)  ☐ "Fee Address" indication in PTO SB (47, Rev 03-02) or in Number 6 required. | e address (or Change of<br>attached,<br>(or "Lee Address" Ind | of Correspondence | the names of up to 3 re<br>or agents OR, alternau<br>single firm (having as<br>attorney or agent) and | patent front page, list (1) egistered patent attorneys evely. (2) the name of a name of a member a negistered to the names of up to 2 eys or agents. If no name commetes | 2             |

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (point or type)

PLEASE NOTE: Unless an assignce is identified below, no assignce data will appear on the patent, inclusion of assignce data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNUE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

| (will not be printed on the patent)                                  | a individual   | ☐ corporation or other private group entity. ☐ gov-  | ernme                  |  |
|--|--|--|------------------------|--|
| 4b. Payment of Fee(s):   |  |  |                        |  |
| 2 A check in the amount of the fee(s) is enclosed.                   |  |  |                        |  |
| 2 Payment by credit card   | Form PTO-203   | K is attached.   |                        |  |
| <ul> <li>The Commissioner is h<br/>Deposit Account Number</li> </ul> | ereby authorized   | by charge the required fee(s), or credit any overpaying(enclose an extra copy of this form)  | arist, to              |  |
|  | 4b. Payment of Feets):  2 A check in the amount  2 Payment by credit card  3 The Commissioner is h | 4b. Payment of Fee(s):  A check in the amount of the fee(s) is en  Payment by credit card. Form PTO-208  The Commissioner is hereby authorized | 4b. Payment of Fee(s): |  |

| Authorized Signature)  | (Date)   |  |
|--|--|--|
| NOTE: The Issue Fee and Publication F<br>other than the applicant; a registered at<br>interest as shown by the records of the Un   | ee (if sequired) will not be accepted from anyone or agent, or the assigner or other party in ted States Patent and Frademark Office.  |  |
| obtain or retain a benefit by the public application. Confidentiality is governed be estimated to take 12 minutes to complete completed application form to the USPI case. Any comments on the amount o suggestions for reducing this burden, she patient and Trademark. Office U.S. | bo 37 CPR 131. The information is required to<br>bothe wire tile, and by the USPIO to process an<br>23 U.S.C. 122 and 37 CPR 134. This collection is<br>including gathering, preparing, and selmuting the<br>including gathering, preparing, and selmuting the<br>time you require to complete this form and/or<br>time you require to complete this form and/or<br>all be sent to the Chef Information Officer, U.S.<br>begathering of Commerce, Alexandra, Virginia<br>Scarding, Virginia 22313-1450. THE ADDICES. |  |
| Under the Paperwork Reduction Act of<br>collection of information unless it display-   | 1995, no persons are required to respond to a<br>a valid OMB control number.   |  |



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office sides (CAMISSENER DER RATENTS PORSHELD

| APPLICATION NO.                       | BEINGDATE     | FIRST NAMED INSTITUTE | ATTORNLY DOCKET NO | CONFIRMATION NO |
|---------------------------------------|---------------|-----------------------|--------------------|-----------------|
| 09.846,635                            | 05-01-2001    | Prasad V Doggirala    | 7548               | 4847            |
| 75                                    | 90 67 03 2003 |                       | EX AMIN.           | ER              |
| ONDEO Nalco C                         |               | ALVO, MARC S          |                    |                 |
| Patent & Licensing<br>ONDEO Nalco Cer |               |                       | ART UNIT           | PAPER NUMBER    |
| Naperville, IL 6056                   | 3-1198        |                       | 1731               |                 |

DATE MAILED: 07/01/2003

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office states a Sulfill State PALENCE Assan by Vignas 2213/1490 was uppered.

DATE MAILED 07/01-2003

| APPLICATION NO                       | BEING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO | CONFIRMATION NO |  |
|--------------------------------------|------------|----------------------|--------------------|-----------------|--|
| 09:846,635                           | 05-01-2001 | Prasad Y. Duggirala  | 7548               | 4847            |  |
| 7530 02/01/2003                      |            |                      | EXAMINER           |                 |  |
| ONDEO Nalco Company                  |            |                      | ALVO, MARC S       |                 |  |
| atent & Licensing<br>ONDEO Nalco Cer |            |                      | ARTUNIT            | PAPER NUMBER    |  |
| Naperville, IL 6056                  | 63-1198    |                      | 1731               |                 |  |
| UNITED STATES                        |            |                      |                    |                 |  |

## Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofces.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure. Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.